

WHAT IS CLAIMED IS:

1 1. A method of communicating information received during a
2 multimedia presentation, comprising:
3 providing an adapter coupled to a first source;
4 receiving, at the adapter, multimedia presentation information from the
5 first source, the multimedia presentation information comprising video information and
6 audio information;
7 receiving, at the adapter, information from a second source separate from
8 the first source during the multimedia presentation; and
9 communicating the multimedia presentation information received from the
10 first source and the information received from the second source from the adapter to a
11 device.

1 2. The method of claim 1:
2 wherein the information received from the second source includes audio
3 information; and
4 wherein receiving the information from the second source comprises:
5 providing a listening device coupled to the adapter; and
6 receiving the audio information from the second source via the
7 listening device.

1 3. The method of claim 1 wherein communicating the multimedia
2 presentation information received from the first source and the information received from
3 the second source from the adapter to the device comprises:
4 processing, at the adapter, the multimedia presentation information
5 received from the first source and the information received from the second source to
6 generate a first representation of the multimedia presentation information and the
7 information received from the second source; and
8 transmitting at least a portion of the first representation to the device.

1 4. The method of claim 3 wherein transmitting at least a portion of the
2 first representation to the device comprises:

receiving, at the adapter, a request from the device requesting transmission of a first portion of the first representation of the multimedia presentation information and the information received from the second source;

in response to the request, determining the first portion of the first representation requested by the device; and

transmitting the first portion of the first representation to the device.

5. The method of claim 4 wherein the request received from the device requests transmission of multimedia presentation information received by the adapter from the first source.

6. The method of claim 4 wherein the request received from the device requests transmission of information received by the adapter from the second source.

7. The method of claim 4 wherein the request received from the device requests transmission of audio information received by the adapter.

8. The method of claim 4 wherein the request received from the device requests transmission of video information received by the adapter.

9. The method of claim 4 wherein the request received from the device requests transmission of audio and video information received by the adapter from the first source and the second source between a start time and an end time.

10. The method of claim 3 wherein processing the multimedia presentation information received from the first source and the information received from the second source to generate the first representation comprises:

selecting a plurality of video frames from the video information received by the adapter; and

synchronizing the plurality of video frames with the audio information included in the multimedia presentation information received from the first source and with audio information included in the information received from the second source; and storing information related to the plurality of video frames.

1 15. The computer program product of claim 14:
2 wherein the information received from the second source includes audio
3 information; and
4 wherein the code for receiving the information from the second source
5 comprises code for receiving the audio information from the second source via a listening
6 device.

1 16. The computer program product of claim 1 wherein the code for
2 communicating the multimedia presentation information received from the first source
3 and the information received from the second source to the device comprises:
4 code for processing the multimedia presentation information received from
5 the first source and the information received from the second source to generate a first
6 representation of the multimedia presentation information and the information received
7 from the second source; and
8 code for transmitting at least a portion of the first representation to the
9 device.

1 17. The computer program product of claim 16 wherein the code for
2 transmitting at least a portion of the first representation to the device comprises:
3 code for receiving a request from the device requesting transmission of a
4 first portion of the first representation of the multimedia presentation information and the
5 information received from the second source;
6 in response to the request, code for determining the first portion of the first
7 representation requested by the device; and
8 code for transmitting the first portion of the first representation to the
9 device.

1 18. The computer program product of claim 17 wherein the request
2 received from the device requests transmission of multimedia presentation information
3 received from the first source.

1 19. The computer program product of claim 17 wherein the request
2 received from the device requests transmission of information received from the second
3 source.

20. The computer program product of claim 17 wherein the request received from the device requests transmission of audio information received from the first source and the second source.

21. The computer program product of claim 17 wherein the request received from the device requests transmission of video information received from the first source and the second source.

22. The computer program product of claim 17 wherein the request received from the device requests transmission of audio and video information received from the first source and the second source between a start time and an end time.

23. The computer program product of claim 16 wherein the code for processing the multimedia presentation information received from the first source and the information received from the second source to generate the first representation comprises:

code for selecting a plurality of video frames from the video information received from the first source and from the second source; and

code for synchronizing the plurality of video frames with the audio information included in the multimedia presentation information received from the first source and with audio information included in the information received from the second source; and

code for storing information related to the plurality of video frames.

24. The computer program product of claim 23 wherein the code for processing the multimedia presentation information received from the first source and the information received from the second source to generate the first representation further comprises:

code for generating a web page for each video frame in the plurality of vide frames, each web page including a video frame;

code for assigning a uniform resource locator (URL) to each web page; and

wherein the code for transmitting at least a portion of the first representation to the device comprises code for transmitting at least one URL assigned to a web page to the device.

Figure 1 consists of 12 histograms arranged in a single column. Each histogram represents the distribution of the number of non-zero elements in the vector x for a specific value of n . The values of n are 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, and 120, labeled on the right side of each plot. The x-axis for all plots is the number of non-zero elements, ranging from 0 to 120. The y-axis represents the frequency, with scales varying between plots (e.g., 0 to 10 for $n=10$, 0 to 100 for $n=100$). The distributions are unimodal and shift to the right as n increases, with the peak frequency also increasing significantly.

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